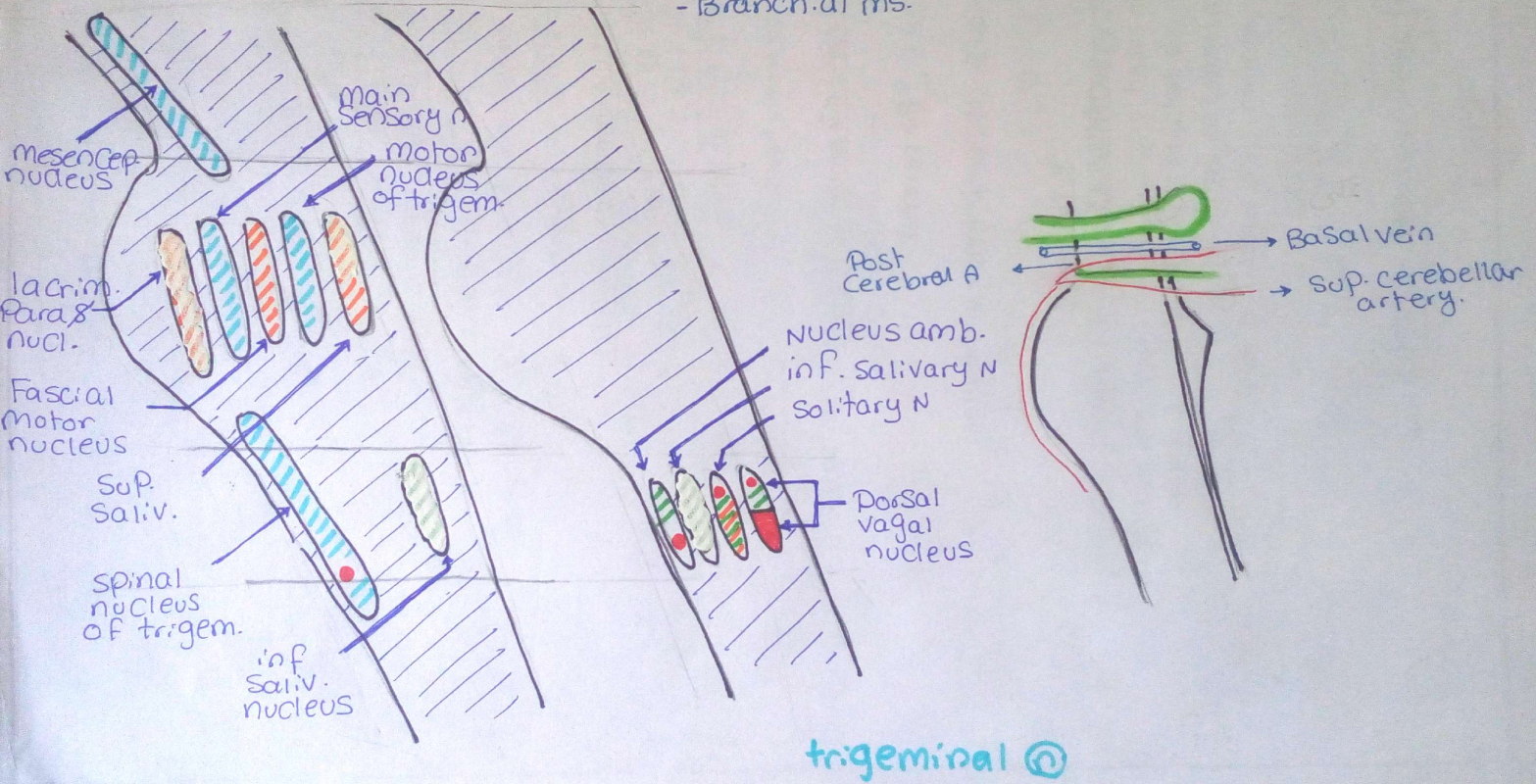


nerves of pharyngeal arches 5th 7th 9th 10th

General Special Somatic visCeral afferent efferent

Sensory except → Special sense.
 motor except → Branch. ms.
 L & P8

- Skin
- SK. ms.
- m.m.
- Gland
- smooth ms.
- Branchial ms.



trigeminal @

VISIT...

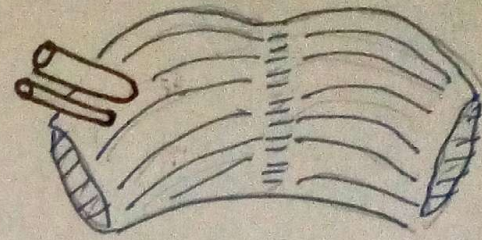
LANZAROTE
Caliente.COM

5th

Trigeminal nerve

superficial attachment

From ventral surface of pons at junction between it and middle cerebellar peduncle By:



- ① large sensory Root.
- ② small motor Root.

Functional Component

Sensory [GSA]

Proprioceptive - exteroceptive sensation of Head.

motor [SVE]

to muscle of 1st pharyngeal arch.

muscle of mastic - tensor palati - mylohyoid - ant belly dig.

Deep nuclei:

① mesencephalic Nuclei

- From upper of MB to upper of Pons
- Receive proprioceptive Impulse [GSA]

② spinal nucleus

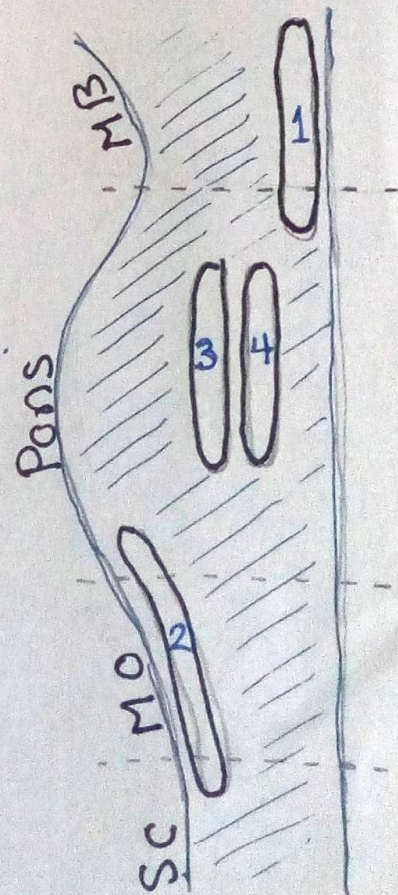
- From lower of Pons to upper Cervical Reg.
- Receive Pain - temp. Impulse. [GSA]

③ main sensory nucleus

- In mid of Pons.
- Receive touch Impulse [GSA]

④ motor nucleus

- In mid of Pons.
- Give motor Impulse to muscle of 1st pharyng. arch [SVE]



Fascial Nerve

Superficial attachment

From Ponto cerebellar angle Between Pons, medulla and cerebellum By 2 roots

- ① Fascial nerve proper. M
- ② Nervous intermedius S PS

Functional Component

motor to muscle of 2nd pharyngeal arch:

- Fascial muscles - Post petty Dig. - stylohyoid - stapedius -

Taste Sens.

From anterior $\frac{2}{3}$ of tongue.

Para 8

Secretory motor to

- Lacrimal Gland
- Submandibular Saliv. G.
- Sublingual Saliv. G.

Deep nuclei:

① motor Fascial nucleus:

- lower level of Pons. [SVE]
- Send motor to muscles of 2nd arch

② lacrimal Para 8 nucleus:

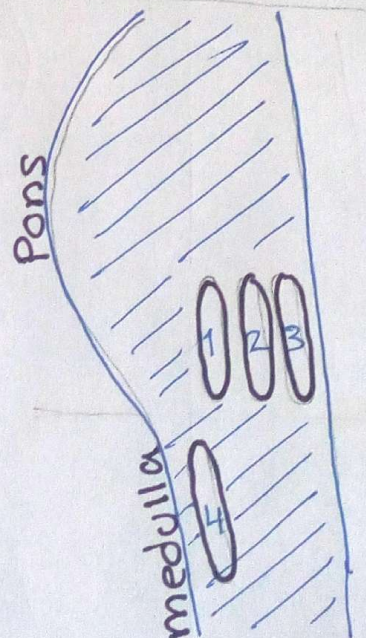
- lower level of Pons.
- Send Para 8 to lacrimal Gland [GVE].

③ Sup. Saliv Para 8 nucleus:

- lower level of Pons.
- Send Para 8 to Submand. / Subling. [GVE].

④ Solitary nucleus:

- upper and middle of medulla.
- receive taste Impulse From ant $\frac{2}{3}$ of tongue



Course

Intra Cranial Part

- leave The cranial cavity and enter internal ear through internal auditory meatus and become above vestibule of internal ear
- enter Fascial Canal w Have 2 parts:
 - Horizontal Part → medial wall of middle ear.
 - Vertical Part → Post. wall of middle ear.
- Fascial Canal inside petrous temporal Bone.
- Finally Passes Through stylo mastoid foramin.

Extra Cranial Part

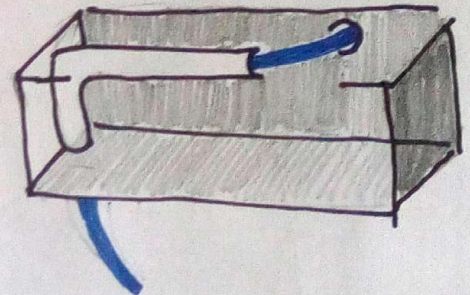
- Runs on lateral side of styloid process to enter parotid from its Post medial Border Then terminate By dividing into its five terminal Brs.

Branches

Intracranial Part

① Greater superficial Petrosal ①:

- w Carrying Para γ fibres
- arising from nervous intermedius
- leaving Petrous temp. Bone Through foramin of G.S.P. to F.lacer joining Deep Petrosal n Then joining n of Pterygoid Canal to sphenopalatine Ganglion Gives fibres relay in it:-
- Supplying
 - lacrima l Gland
 - m.m of [nose - palate - nasopharynx].



② Chorda tempani:

- w Carrying Para γ and Sensory (taste) fibres.
- arising from nervous intermedius.
- Descend in Post wall of middle ear Through Squamotemp. F to infra temp. Fossa joining lingual ① Deep to lat. Pterygoid.
- Supplying
 - * Para γ fib. leave ling Relay submand. G. — [submandib. G. subling. G.]
 - * taste fibres Continue $\bar{e}$ lingual to supply ant $\frac{2}{3}$...

③ N. to stapedius ms

extra cranial

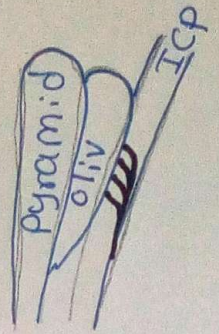
- ① n to Post belly of digastric + stylohyoid ms.
- ② Post. auricular n.
- ③ The 5 terminal Brs.

9th

Glossopharyngeal n

Superficial attachment

By 4-5 rootlets from Postrolateral sulcus of medulla between oliv and ICP.



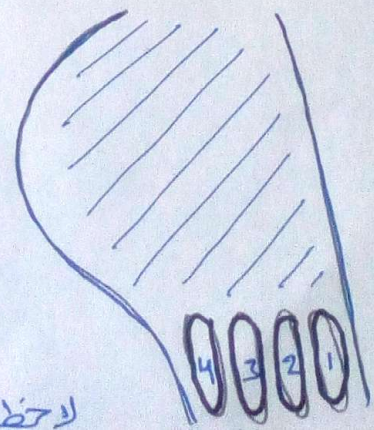
Functional Component

<u>Sensory</u>	taste	From Post 1/3 of tongue	[SVA]
	General visceral	From Post 1/3 of tongue	[GVA]
		• oropharynx - laryngopharynx	
<u>motor</u>	supplying muscle of 3rd ph. arch:		
	Stylopharyngus	[SVE]	
<u>Para S</u>	Secretory motor to Parotid gland	[GVE]	

Deep Nuclei

- ① inf salivary nucleus [SVA]:
upper level of medulla.
- ② Sensory part of Dorsal vagal nucleus [GVA]:
upper level of medulla.
- ③ Nucleus ambiguus [SVE]:
upper level of medulla.
- ④ solitary nucleus [SVA]:
upper level of medulla.

تحت على الرخم من ان
الباروتير فوق



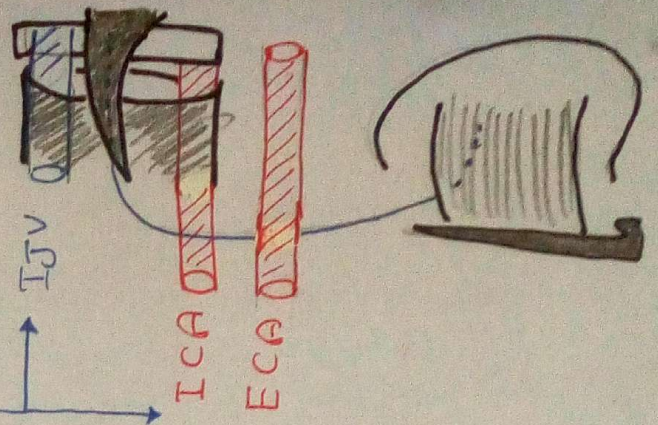
لاحظ ان كلهم من المبدأ من فوق ومشاركين مع البائع من الطعام

Course

- leave Cranial fossa as in middle Compartment of Jugular Foramen.

- Descend in Carotid sheath Deep to Styloid Process. Between

- Runs Forward Between ICA and ECA Then Deep to Hyoglossus to terminate in Post $\frac{1}{3}$ of tongue



Branches

تو تو have macrophages in tonsil

- Sensory
- ① meningeal Br → Supplying dura of Post. Cranial fossa.
 - ② carotid Br → ~ Carotid sinus and Body.
 - ③ Pharyngeal Br → sharing By Sensory root to ph. plexus.
 - ④ tonsillar Br → Supplying palatine tonsils.
 - ⑤ terminal Br → ~ Post $\frac{1}{3}$ of tongue [G. taste].
 - ⑥ n to stylopharyngeus ms [motor]
 - ⑦ tympanic Br → otic غدة [para §].



Tympanic Br of gth

Origin from inf. ganglion of gth.

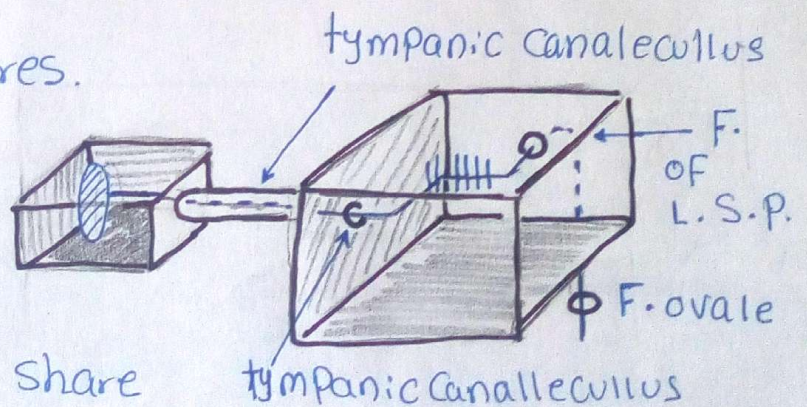
دى غير السمبائىك

Type of fibres Para § fibres.

Course

Pass from Jugular Fossa to tympanic Cavity Through tympanic Canaleculus Then share in tympanic Plexus and Gives

lesser sup. petrosal n to enter Cranial fossa Through L.S.P. Foram. Then Enter infra temporal Fossa Through Foramen ovale to Relay in otic Ganglion ... The Post ganglionic Para § fibres Joining auriculo temp. n to Supply Parotid gland.



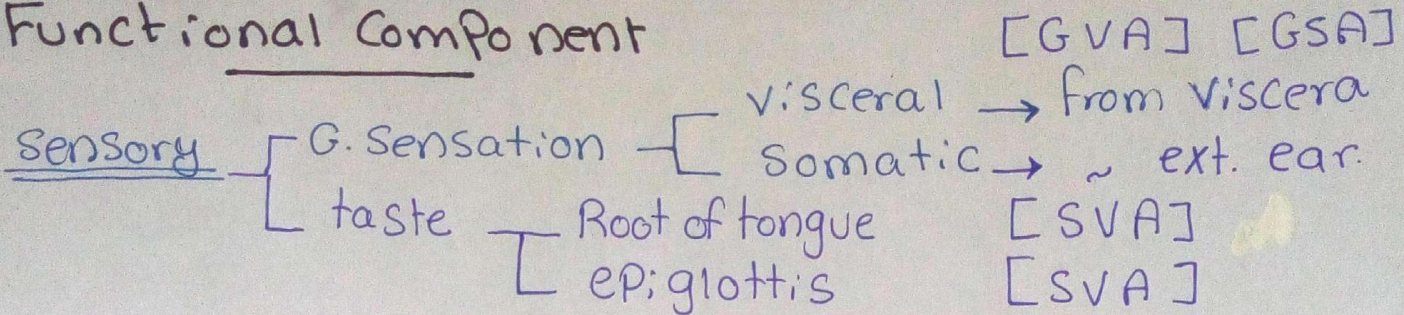
10th Vagus N

Superficial attachment

By 10 rootlets from Postero lateral sulcus of medulla Just below origin of gm.



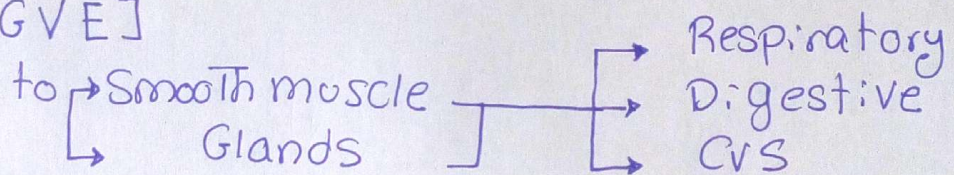
Functional Component



Motor [SVE]

all muscle of Palate exc tensor palati.
all ~ ~ pharynx ~ stylopharyngus.
all ~ ~ larynx.

Para S [GVE]



Deep Nuclei

1 nucleus ambiguus [SVE]

- upper level of medulla.

2 sensory part of Dorsal vagal nucleus [GVA]

- upper level of medulla.

3 Solitary nucleus [SVA]

- upper level of medulla

Para S 4 Motor Part of Dorsal Vagal nucleus [GVE]

- upper level of medulla.

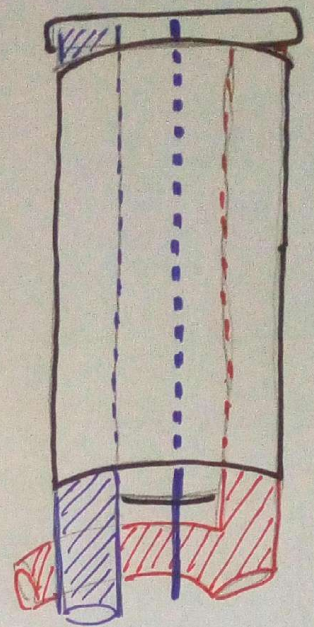
G.S. Sensory ext. ear 5 Spinal trigeminal nucleus [GSA]

- lower level of Pons → upper Cervical region

Sal. n. لسانة مشا gland سالى. Para S } اختلف مع التاسع
ext. ear somatic زود على واحدة على شان

Course

- It leave Cranial cavity as in middle Compartment of Jugular foramin
- Descending Deep to Styloid process in Carotid sheath Between IJV & ICA.
- Then Between IJV & CCA.
- Then crossing in front 1st part of subclavian A to enter Thorax.



Branches

2 Brs From sup. Ganglion

- ① meningeal Br to supply dura of post cranial fossa.
- ② auricular Br to supply [skin of medial side of auric. post wall of ext. aud. meat.

2 Brs From inf Gang.

- ① Pharyngeal Br (motor) — share in pharyngeal plexus.
w supply [all palate muscle except tensor p
all pharynx ~ ~ styloph.

- ② sup. laryngeal n (mixed)

divide into [internal laryng. → mm. larynx upper 1/2
external ~ → Cricothyroid ms

2 Cardiac Brs

sup/Inf
Joining Cardiac plexus.

From Rt only

Rt recurrent laryng. n

From Lt only

Lt recurrent laryng. n

ascending in front of 1st part of subclavian artery Between trachia + esophagus

- motor to all laryngeal ms except Cricothyroid.
- sensory to lower 1/2 of mm of larynx.